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- (71) Applicant (for all designated States except US): **PROTASIS CORPORATION** [US/US]; 734 Forest Street, Marlborough, Massachusetts 01752 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **STRAND, David** [US/US]; 16 Nason Hill Lane, Sherborn, Massachusetts 01770 (US). **LEATZOW, Dan, M.** [US/US]; 545 Southeast South Street, Pullman, Washington 99163 (US).
- (74) Agent: **MCDERMOTT, Peter, D.**; Banner & Witcoff Ltd., 28 State St. 28th Floor, Boston, Massachusetts 02109 (US).

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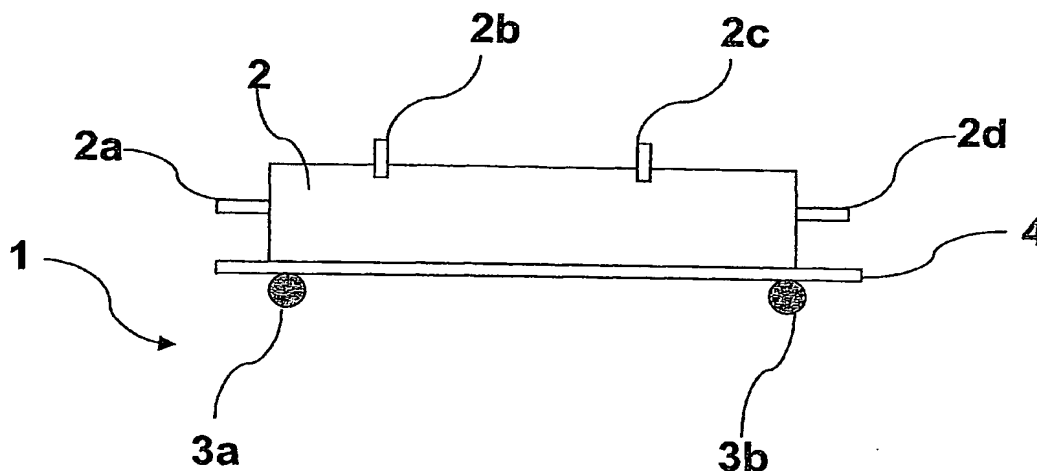
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(54) Title: **BULK FLUID FLOW GATE**



(57) Abstract: A bulk fluid flow gate is provided. In accordance with certain exemplary embodiments the bulk fluid flow gate includes a first and second entry port and first and second exit ports. Bulk fluid is flowed into the chamber to provide greater hydrodynamic resistance at the first exit port than at the second exit port. The bulk fluid flow gate is useful for separation, testing and or analysis of analytes. Methods of making and using the bulk fluid flow gate are also provided. In accordance with certain exemplary embodiments a fluid flow gate includes a first entry port into a microscale chamber and first and second exit ports. In accordance with certain embodiments a fluid flow gate includes a first entry port to a chamber and first and second exit ports, wherein greater hydrodynamic resistance is provided at the first exit port than at the second exit port.

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